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SUBJ: TID REQUIREMENTS FOR J-3 CAMERA SYSTEM MANUAL

PER YOUR DISCUSSION WITH [REDACTED] PERSONNEL DURING YOUR
 LAST VISIT, THE FOLLOWING REQUIREMENTS ARE HEREBY SUBMITTED
 FOR YOUR CONSIDERATION AS CONTENTS IN COMPILING THE J-3 CAMERA
 SYSTEM MANUAL. DATA IS REQUIRED FOR ALL CAMERAS WITHIN J-3 23 DEC 1966
 SYSTEM.

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I. GENERAL INTRODUCTION

A. MAIN SYSTEM COMPONENTS

1. PAN SYSTEM CAMERAS
2. HORIZON CAMERAS
3. STELLAR CAMERAS
4. INDEX CAMERAS

B. SUPPORT SYSTEM COMPONENTS

1. VEHICLE
2. ATTITUDE SENSORS AND CONTROLS
3. TIME RECORDING, CLOCK, ETC.
4. DATA RECORDING

C. SYSTEM PARAMETERS

1. ALTITUDES (RANGE)
2. FOCAL LENGTHS

DISTRIBUTION	
By No.	Class
1	100
2	100
3	100
4	100
5	100
6	100
7	100
8	100
9	100
10	100
11	100
12	100
13	100
14	100
15	100
16	100
17	100
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19	100
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48	100
49	100
50	100

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 Excluded from automatic
 downgrading and
 declassification

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3. FIELD ANGLES
4. LOCK ANGLES
5. SCALE RANGE
6. LENS FILM RESOLUTIONS
 - A. STATIC
 - B. DYNAMIC

D. MISSION PARAMETERS

1. RAMPS
2. INCLINATION ANGLES
3. ORBITS
4. FILM LOAD AND TYPE
5. COVERAGE
6. OVERLAP

II. CAMERA INFORMATION

A. OPTICAL REQUIREMENTS (ALL CAMERAS WHERE APPLICABLE)

1. OPTICAL PATH DIAGRAM
2. LENS DIAGRAM
3. ANGULAR ALIGNMENT
4. FIELD ANGLES
5. OPTICAL RESOLUTION (LENS/FILM)
6. FOCAL LENGTH
7. LOCK ANGLES
8. LENS TYPE, NO OF ELEMENTS, SIZE OF ELEMENTS
9. RELATIVE APERTURE

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10. T NUMBER
11. IMAGE ORIENTATION
12. FILM MOTION
13. RESEAU
 - A. SIZE
 - B. LOCATION
 - C. ACCURACY
14. LENS DISTORTION
15. FOCUS

B. FORMATS

1. DUPLICATE POSITIVE EMULSION-UP
2. X, Y, Z DIRECTIONS
3. FIDUCIAL LOCATIONS
4. SHRINKAGE MARKS
5. PAN GEOMETRY DEFINED
6. HOLEY RAIL
7. NODAL TRACES
8. TIME WORD
9. TIME HACK OR SCAN RATE RECORDING
10. RESEAU
11. DATA RECORDING

C. FILM PATH DIAGRAMS (ALL CAMERAS)

1. PLATEN LOCATION
2. TAKE-UP
3. SUPPLY
4. ROLLER LOCATIONS

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5. DIRECTIONAL MOTION ARROWS

6. LOOPERS

7. TENSION BARS

8. ROTATIONAL BARS

9. LENS LOCATION

D. RECORDED INFORMATION

1. TIMING PIPS

2. HOLEY RAIL

3. TIME (BINARY)

4. NODAL TRACES

5. RESEAU

6. FIDUCIALS

7. SHRINKAGE MARKS

8. ATTITUDE

E. OTHER CAMERA INFORMATION

1. SHUTTER TYPE

2. CYCLE RATES

3. FILM TYPES, EMULSION

4. APERTURE

5. SLIT SIZE

6. EXPOSURES

7. IMC

8. V/H RATIOS

F. MISCELLANEOUS REQUIREMENTS

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1. SENSOR ACCURACY
2. EPHEMERIS ACCURACY
3. METHODS OF CORRELATION
4. METHODS OF CALIBRATION
5. TIME CORRELATION TO CENTER OF FORMAT
6. GLOSSARY OF TERMS
7. RELATIVE ORIENTATION OF EACH CAMERA SYSTEM

G. FORMULA REQUIRED

1. IMC
2. CYCLE RATES/RAMPS
3. EXPOSURE
4. RESIDUAL DISTORTIONS
5. SCAN RATES

NOTE:

HAS A SEPARATE REQUIREMENT FOR CALIBRATION INFORMATION ON EACH MISSION. ALL ANGLES, CALIBRATIONS AND RELATIVE ORIENTATIONS SHOULD BE SHOWN AS DESIGN LIMITS FOR THOSE PARAMETERS.

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VARIANCES IN ALL PARAMETERS ARE OF PRIMARY IMPORTANCE AND OPERATIONAL LIMITS ARE REQUIRED.

TABLES, GRAPHS, DIAGRAMS AND PICTURES OF COMPONENTS AND RELATIONSHIPS ARE REQUESTED WHEN AVAILABLE.

T O P S E C R E T

-END OF MESSAGE-

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